Amendments to the Claims:

This listing of claims will replace all prior versions, and listings of claims in the application:

Listing of Claims:

1. (Currently amended) A method for detecting the presence of a ligand in a cell or tissue sample, said method comprising,

contacting said sample with a binding agent, attached to a detectable nucleic acid molecule, which agent binds said ligand capable of binding said ligand, wherein said agent is attached to a detectable nucleic acid molecule;

staining said sample to identify cells of interest;
capturing or isolating said cells of interest; and
detecting said nucleic acid molecule,
wherein the presence of said nucleic acid molecule indicates the presence of said ligand.

- 2. (Original) The method of claim 1 wherein said agent is an antibody.
- 3. (Original) The method of claim 1 wherein said sample is a tissue section, a cytospin, or a cell smear.
- 4. (Original) The method of claim 1 wherein said detecting is by PCR amplification of said nucleic acid molecule.
- 5. (Original) The method of claim 4 wherein said PCR is quantitative PCR and the quantitative presence of said ligand is detected.
- 6. (Original) The method of claim 1 wherein said staining is by histochemical staining.

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- 7. (Original) The method of claim 1 wherein said capturing is laser capture microdissection (LCM) or laser microdissection (LMD).
- 8. (Original) The method of claim 1 wherein a plurality of agents, attached to a plurality of different nucleic acid molecules, are simultaneously used to detect a plurality of ligands.
 - 9. (Original) The method of claim 8 wherein said agents are antibodies.
 - 10. (Original) The method of claim 1 wherein said sample is prostate tissue.
- 11. (Original) The method of claim 10 wherein said ligand is prostate specific ligand.
- 12. (Original) The method of claim 11 wherein capturing is of only one to two cells.
- 13. (Original) The method of claim 1 wherein said nucleic acid molecule comprises a promoter.
 - 14. (Original) The method of claim 13 wherein said promoter is a T7 promoter.
- 15. (Original) The method of claim 14 wherein said detecting comprises contacting said promoter with T7 polymerase and identifying transcription initiated from said T7 promoter.
- 16. (Original) The method of claim 8 wherein said plurality of ligands comprise two forms of a polypeptide.

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- 17. (Original) The method of claim 16 wherein said two forms are the phosphorylated and unphosphorylated forms of a polypeptide.
- 18. (Original) The method of claim 5 further comprising quantitatively determining the amount of ligand per captured or isolated cell.
- 19. (Original) The method of claim 1 wherein said ligand is a polypeptide, a nucleic acid, a lipid, a carbohydrate, or a portion or domain or epitope thereof.
- 20. (Original) The method of claim 15 wherein said identifying is by contacting transcription products with a microarray comprising nucleic acid molecules capable of binding said products by base pair complementarity.
 - 21. (New) The method of claim 1 wherein said agent is a protein.